TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-27-04**	**Date: 01-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bnagalore.	
Address	:	Yelahanka Satellite Sub Division, BBMP, Bnagalore.	
Project Name	:	Asphalting to roads and improvements to drains in Attur layout 6th, 7th, 8th & 9th Main road of Attur ward no.03	
Agency	:	Technical Manager, KRIDL, BBMP, Bangalore.	
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	27-03-17	
Sample ID No	:	2017-03-27-04-04	
Sample Type	:	Indus Fe 500	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	27-03-17	

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	10mm	0.612	537	646	19.5%

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	10mm	Satisfactory	Satisfactory

Note:
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Prepared By:
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TEST RESULTS OF STEEL

Lab ID	:	CP-2017-03-27-04 **Date: 01-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bnagalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bnagalore.
Project Name	:	Asphalting to roads and improvements to drains in Attur layout 6th, 7th, 8th & 9th Main road of Attur ward no.03
Agency	:	Technical Manager, KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-03-17
Sample ID No	:	2017-03-27-04-05
Sample Type	:	Indus Fe 500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	27-03-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	12mm	0.888	564	659	20.5%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	12mm	Satisfactory	Satisfactory

Note:
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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-04-03-01** **Date: 05-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Attur Layout 6th, 7th, 8th and 9th Main road of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-17
Sample ID No	:	2017-04-03-01/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	03-04-17
Oven Dry Weight(gm)	:	10000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	213	213	2.13	97.9	80-100
26.5	2076	2289	22.89	77.1	55-90
9.5	1787	4076	40.76	59.2	35-65
4.75	2384	6460	64.60	35.4	25-55
2.36	1075	7535	75.35	24.7	20-40
0.425	1265	8800	88.00	12.0	10-25
0.075	865	9665	96.65	3.3	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	21.80%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-04-06-01** **Date: 08-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Attur Layout 6th, 7th, 8th and 9th Main road of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-04-17
Sample ID No	:	2017-04-06-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	06-04-17
Oven Dry Weight(gm)	:	11000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	154	154	1.40	98.6	95-100
22.4	2087	2241	20.37	79.6	60-80
11.2	2541	4782	43.47	56.5	40-60
4.75	2874	7656	69.60	30.4	25-40
2.36	1543	9199	83.63	16.4	15-30
0.6	627	9826	89.33	10.7	8-22
0.075	875	10701	97.28	2.7	0-5

Note:-

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-04-10-03** **Date: 12-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Attur Layout 6th, 7th, 8th and 9th Main road of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-17
Sample ID No	:	2017-04-10-03/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	10-04-17
Oven Dry Weight(gm)	:	10000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	201	201	2.01	98.0	95-100
22.4	2286	2487	24.87	75.1	60-80
11.2	2059	4546	45.46	54.5	40-60
4.75	2187	6733	67.33	32.7	25-40
2.36	926	7659	76.59	23.4	15-30
0.6	688	8347	83.47	16.5	8-22
0.075	1254	9601	96.01	4.0	0-5

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-04-12-03** **Date: 15-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Attur Layout 6th, 7th, 8th and 9th Main road of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-04-17
Sample ID No	:	2017-04-12-03/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	12-04-17
Oven Dry Weight(gm)	:	10000

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	201	201	2.01	98.0	95-100
22.4	2238	2439	24.39	75.6	60-80
11.2	2164	4603	46.03	54.0	40-60
4.75	2107	6710	67.10	32.9	25-40
2.36	1351	8061	80.61	19.4	15-30
0.6	487	8548	85.48	14.5	8-22
0.075	1043	9591	95.91	4.1	0-5

Note:-

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-04-06-01**	**Date: 10-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Project Name	:	Asphalting to Roads and improvements to drains in Attur Layout 6th, 7th, 8th and 9th Main road of Attur Ward No.03	
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.	
Customer Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	06-04-17	
Sample ID No	:	2017-04-06-01/01	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	07-04-17	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	303.0	303.5
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	68.6	70.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	234.0	232.7
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.7
5	Aggregate impact value	(B/A)*100	22.6	23.1
6	Aggregate impact value (Mean of two tests)	Pecentage	22.9	

Note:-

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-04-06-01**	**Date: 08-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Project Name	:	Asphalting to Roads and improvements to drains in Attur Layout 6th, 7th, 8th and 9th Main road of Attur Ward No.03	
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.	
Customer Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	06-04-17	
Sample ID No	:	2017-04-06-01/01	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	08-04-17	

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.2%	
Combined Flakiness and Elongation Index for WMM	23.0%	

Note:-
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Prepared By:
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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-04-10-03** **Date: 12-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Attur Layout 6th, 7th, 8th and 9th Main road of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-04-17
Sample ID No	:	2017-04-10-03/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	11-04-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	11.5%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.7%	
Combined Flakiness and Elongation Index for WMM	24.2%	

Note:-
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Quality Manager

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-2017-04-15-03** **Date: 19-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Attur Layout 6th, 7th, 8th and 9th Main road of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18
Source of Sample	:	Sample supplied By Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-04-17
Sample ID No	:	2017-04-15-03/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	15-04-17

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	68	60 to 70
2	Softening Point, °C	49.6	Min. 40°C
3	Ductility, cm	95	Min. 75cm
4	Flash point, °C	225.5	Min. 220°C
	Fire point, °C	272.0	

Note:
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SPECIFIC GRAVITY AND WATER ABSORPTION TEST
IS:2386 Part III

Lab ID : CP-RW-2017-04-15-03 **Date: 19-04-17**

Customer : Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Sub Division, BBMP, Bangalore.

Agency : Technical Manager(West), KRIDL, BBMP, Bangalore.

Project Name : Asphalting to Roads and improvements to drains in Attur Layout 6th, 7th, 8th and 9th Main road of Attur Ward No.03

Customer Reference : BBMP/EE(YNK.D)/W.O/143/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-04-17

Sample ID No : 2017-04-15-03/01

Type of Mix : Coarse Aggregate for DBM (Dense Bituminous Macadam)

Date of test : 17-04-17

Sl.No	Details of Observations	Index	Unit	Test 1	Test 2	Mean Value
218	Weight of Wet aggregates + Basket suspended in water	A1	grams	2260	2269	
2	Weight of Empty Basket suspended in water	A2	grams	791	791	
3	Weight of Aggregates in water	A=A1-A2	grams	1469	1478	
4	Weight of Saturated Surface Dry aggregate	B	grams	2434	2408	
5	Weight of oven dried aggregate	C	grams	2430	2404	
6	Specific gravity	C/(B-A)		2.52	2.58	2.55
7	Apparent Specific gravity	C/(C-A)		2.53	2.60	2.56
8	Water absorption	100*(B-C) /C	Percent	0.16	0.17	0.17

Note:-
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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-04-15-03**	**Date: 19-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Project Name	:	Asphalting to Roads and improvements to drains in Attur Layout 6th, 7th, 8th and 9th Main road of Attur Ward No.03	
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.	
Customer Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	15-04-17	
Sample ID No	:	2017-04-15-03/01	
Type of Mix	:	Coarse Aggregate for DBM (Dense Bituminous Macadam)	
Date of test	:	17-04-17	

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 500-8
Flakiness Index	8.6%	Combined Flakiness & Elongation Index for DBM is Maximum 35%
Elongation Index	11.2%	
Combined Flakiness and Elongation Index for DBM	19.8%	

Note:-
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TESTS RESULTS ON AGGREGATE IMPACT VALUE
(IS:2386 Part IV)

Lab ID	:	**CP-RW-2017-04-15-03**	**Date: 19-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.	
Project Name	:	Asphalting to Roads and improvements to drains in Attur Layout 6th, 7th, 8th and 9th Main road of Attur Ward No.03	
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.	
Customer Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	15-04-17	
Sample ID No	:	2017-04-15-03/01	
Type of Mix	:	Coarse Aggreagte for DBM(Dense Bituminous Macadam)	
Date of test	:	17-04-17	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	302.4	302.1
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	65.9	65.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	236.1	236.1
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.9
5	Aggregate impct value	(B/A)*100	21.79	21.55
6	Aggregate impct value (Mean of two tests)		21.67	

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

AE W3

Prepared By:
Harshitha

AE-07

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2017-04-15-03** **Date: 19-04-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Sub Division, BBMP, Bangalore.
Project Name	:	Asphalting to Roads and improvements to drains in Attur Layout 6th, 7th, 8th and 9th Main road of Attur Ward No.03
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/143/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-04-17
Sample ID No	:	2017-04-15-03/01
Type of Mix	:	DBM(Dense Bituminous Macadam)
Date of test	:	15-04-17

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	97.0	3.0	97.2	Minimum Retained Coating 95%
2	97.5	2.5		
3	97.0	3.0		

Note:
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AE W3

Prepared by
Harshitha

AE-01

FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
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****End of Report****

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